

From: Rapicavoli, Emmanuelle [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=FF3604A98B624BB7A1A9A236EC176998-ERAPICAV]
Sent: 4/25/2017 4:29:13 PM
To: Jeff Mansfield [jlmansfield1981@gmail.com]
Subject: RE: Sanitary Survey for Polacca Water System

Hi Jeff

The narrative in the attachment describes each deficiency pretty simply. There are three issues on the west tank and one on the upper mesa tank: 1) You need a new screen (24 mesh ideally) installed on the West tank vent; 2) There is a hole in the roof of the west tank on the instrument box. This needs to be sealed or the lid replaced. 3) The overflow pipe for the west tank has a flap gate on the end that doesn't close. You can try oiling the hinge but likely you will need to replace the flap gate and install some screen inside the pipe to prevent animals/insects from crawling up; 4) On the upper mesa tank the opening around the target cable needs to be protected with a screen or stainless steel wool.

Feel free to give me a call and I can explain these in further detail. Thanks

Emmanuelle

From the Attachment:

- 1) **Older West Storage Tank ST001 Openings in the Roof** - An abandoned instrument box in ST001's roof has holes in its cover and an opening inside that penetrates the roof. These openings can allow insects, spiders and rain water to enter the tank.
Recommended Action - The openings should be sealed.
- 2) **Older West Storage Tank ST001 Flap Gate** - The overflow pipe for ST001 has a flap gate to prevent insects and rodents from entering the tank through the overflow pipe. However, the flap gate is not fully closing and needs lubrication. EPA Region 9's policy on protection of overflows is as follows: *In order to prevent insects, birds, and animals from entering the tank, fit the end of the overflow pipe with a flap gate (or duckbill) that seals tightly, a screen, or both. The screen may be installed loosely to come off in the event that it becomes clogged in an overflow event.*
Recommended Action - The flap gate should be lubricated so it closes securely under its own weight. EPA recommends adding an insect screen as additional protection.
- 3) **Older West Storage Tank ST001 Vent Screen** - The tank's vent is screened but the screen's mesh size is too large to exclude insects. EPA Region 9's policy on screening storage tank vents is as follows: *Vent screens should fit properly and be a fine enough mesh to prohibit the entry of insects and birds. Special vent designs may be necessary to prevent vents from clogging or freezing over. If the operator suspects that the tank vent tends to become clogged or frozen over, the problem should be addressed by an engineer familiar with water tank vent design.*
Recommended Action - A non-corrodible insect screen should be installed on the vent. EPA Region 9 recommends non-corrodible 24-mesh insect screen.
- 4) **New Upper Mesa Storage Tank ST004 Unprotected Target Cable Housing** - The new stainless steel storage tank has a functional target but the housing for the cable is not well protected against the entry of wasps and other nesting insects. Further, the tank has no access hatch to allow the operators to check for obvious contamination by insects making it even more important to ensure that insects and other contaminants cannot enter the tank.

Recommended Action - The opening around the target cable should be protected with non-corrodible screen or filled loosely with stainless steel wool. Regardless of the method chosen, the cable must have enough room to move freely as the water level changes.

Emmanuelle Rapicavoli
Drinking Water Protection Section (WTR 3-2)
Environmental Protection Agency, Region 9
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Please: All data submittals to our office should be sent by email to datamanager@epa.gov with a copy to me (or your project manager in the Drinking Water Office). Data reports are due no later than the **10th** of the month following the month that you receive results, or the **10th** of the month following the compliance period, whichever comes first. Please include the whole lab report and copy of the Chain of Custody. Label with PWS name and number; & source or distribution system location codes or names for data collection points.

From: Jeff Mansfield [mailto:jlmansfield1981@gmail.com]
Sent: Monday, April 24, 2017 8:56 PM
To: Rapicavoli, Emmanuelle <Rapicavoli.Emmanuelle@epa.gov>
Subject: Re: Sanitary Survey for Polacca Water System

Emmanuelle,

Would you be able to give me a more simplified Narrative of the 4 Deficiencies that you mentioned above in the previous email to Ivan? I have a copy of the Nov. 2016 Survey, it's a lot of info to process so I could use some help.

I believe on the issue was the lack of sufficient pressurization on the Mesa Top?

Also, what is the specific time frame to compose a "corrective action" to our 4 Deficiencies?

Jeff Mansfield
FMCV Business Consultant

On Thu, Apr 20, 2017 at 3:56 PM, Rapicavoli, Emmanuelle <Rapicavoli.Emmanuelle@epa.gov> wrote:

Hello Ivan,

Attached are the reports and findings from the sanitary survey that was conducted at the Polacca Water system by our contractor, Dan Fraser, P.E. of Sleeping Giant Environmental Consultants, LLP., on November 14-15, 2016. During the course of the survey, the contractor found four deficiencies which we have deemed **Significant Deficiencies** relating to the West tank and the Upper Mesa tank. A description of each is included in the attached letter and in the reports. I spoke to Sharon earlier today about them. Please let me know if you have any questions about them or how to correct them. I will be available by phone tomorrow. Please contact us within 30 days to discuss your plan to correct them.

A hard copy of the letter and reports is on its way to your office.

I also wanted to make sure that you understood that this is not related to the finding of violation letter that was sent by our enforcement office. Please let me know if you have questions.

Thanks,

Emmanuelle

Emmanuelle Rapticavoli

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